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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/666,212	09/18/2003	Anatoly Z. Rosenflanz	58807US002	8296
32692	7590 03/03/2006		EXAMINER	
3M INNOVATIVE PROPERTIES COMPANY			GROUP, KARL E	
PO BOX 3342 ST. PAUL. M	DBOX 33427 C. PAUL, MN 55133-3427		ART UNIT	PAPER NUMBER
,			1755	
			DATE MAILED: 03/03/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/666,212	ROSENFLANZ ET AL.			
Office Action Summary	Examiner	Art Unit			
	Karl E. Group	1755			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	. the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 09 Fe	ebruary 2006.				
2a)⊠ This action is FINAL . 2b)□ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	63 O.G. 213.			
Disposition of Claims					
4)	re withdrawn from consideration.				
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
	_				
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3.☐ Copies of the certified copies of the prior					
application from the International Bureau	ı (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	d.			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	. 4) Interview Summary Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08), Paper No(s)/Mail Date 7/14/07, 4/5/05, 3/8/05, 4/18/05, 1/1		atent Application (PTO-152)			
U.S. Patent and Trademark Office /0/29/04/8/16/04, 8/16/04, 8/16/04, 6/13/04 PTOL-326 (Rev. 7-05)	1,2/9/06 tion Summary Pa	rt of Paper No./Mail Date 20060227			

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Response to Amendment

1. Applicants are reminded to use the proper claim indicators. Any further amendments without the proper indicators will be considered non-compliant. For example claims 26 and 72 are drawn to non-elected inventions that are withdrawn from consideration.

Information Disclosure Statement

- 2. The previously cited information disclosure statements have been considered.
- 3. The NPL documents cited 2-09-06 have not been considered because they were not cited on a PTO-1449. It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

Claim Rejections - 35 USC § 102 and 103

- 4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 5. Claims 1-3,6-11,13-23,69,73 and 74 rejected under 35 U.S.C. 102(b) as anticipated by Elmer et al (3,754,978), for reasons of record.

Applicants' argument that the glaze taught by Elmer et al contains significantly more than 20 wt% SiO₂ is not persuasive in overcoming the rejection. The glaze taught

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by Elmer et al does not contain SiO_2 , see column 2, lines 17-25. There is no SiO_2 added to the glaze, the SiO_2 is the substrate the glaze is added to. Even if a reaction occurs, applicants have not supplied any tangible evidence that the SiO_2 would be present throughout the glaze in amounts greater than 20wt%. Furthermore, any reaction would be expected to be at the interface of the substrate and the glaze not the entire glaze and would lead to small amounts of silica. There is no tangible evidence that the amount of SiO_2 in the glaze is greater than 20wt%, particularly when the three components of the glaze form a glass. It is emphasized the mixture of Al_2O_3 , ZrO_2 and Ta_2O_5 forms a glass and does not require SiO_2 to form a eutectic. The non-patent literature cited by applicants does not show the phase diagrams of a mixture of Al_2O_3 , ZrO_2 and Ta_2O_5 combined.

6. Claims 1,2,69 are rejected under 35 U.S.C. 102(a or e) as being anticipated by Tachiwama (6,818,578). See examples 1 and 9.

This rejection was necessitated by the amendments to the claims.

Double Patenting

7. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

8. Claims 1-3,6-23,69,73,74 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-26,71,74,75 of copending Application No. 10/666098. Although the conflicting claims are not identical, they are not patentably distinct from each other because of reasons set forth.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Applicants have not argued this rejection, therefor it is considered proper.

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl E. Group whose telephone number is 571-272-1368. The examiner can normally be reached on M-F (6:30-4:00) First Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karl E Group
Primary Examiner
Art Unit 1755

Keg 2-27-06